

AMENDMENTS TO THE CLAIMS

1 - 68 (canceled)

69. (previously presented) A layered composite material comprising a layer of a first alloy species of an alloy, the first alloy species having first alloy species properties and consisting essentially of a first alloy phase, and further comprising a layer of a second alloy species of the alloy, the second alloy species having second alloy species properties and consisting essentially of a second alloy phase, wherein the first alloy species properties are distinguishable from the second alloy species properties, wherein the alloy is comprised of gold and tin, wherein the first alloy phase is Au_5Sn and the second alloy phase is AuSn and wherein the layered composite material is comprised of a plurality of layers of each of the first alloy species and the second alloy species.

70 - 72. (canceled)

73. (previously presented) The layered composite material as claimed in claim 69 wherein the first alloy phase has a first alloy phase composition, wherein the second alloy phase has a second alloy phase composition, and wherein the first alloy phase composition is different from the second alloy phase composition.

74 - 75. (canceled)

76. (previously presented) The layered composite material as claimed in claim 73 wherein the material has a composite material composition and wherein the composite material composition is comprised of between about 25 at % tin and about 40 at % tin.

77. (original) The layered composite material as claimed in claim 76 wherein the composite material composition is comprised of between about 27 at % tin and about 35 at % tin.

78. (original) The layered composite material as claimed in claim 77 wherein the composite material composition is comprised of about 30 at % tin.

79. (original) The layered composite material as claimed in claim 77 wherein the composite material composition is a eutectic composition.

80 - 89. (canceled)